

Flec'd PCT/PTO 18 NOV 2005

Approved for use through 10/31/2002. OMB 0651-0032

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06309 USA **Attorney Docket Number DECLARATION FOR UTILITY OR Neil Alexander DOWNIE** First Named Inventor **DESIGN COMPLETE IF KNOWN** PATENT APPLICATION (37 CFR 1.63) Application Number Filing Date 11/20/2003 Declaration Declaration OR Submitted after Initial Submitted Group Art Unit Filing (surcharge with Initial (37 ČFR 1.16 (e)) Filing **Examiner Name** required)

As a below named inventor, I hereby declare that:						
My residence, mailing address, and citizenship are as stated below next to my name.						
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:						
names are listed below) of the sub	ject matter which is clair	ned and for which a pate	int is sought on ti	ne nivertion entitled.		
VOLUME FLOW CONTROLLER						
	0					
·		•	•	•		
	(Title of ti	he Invention)				
the specification of which						
is attached hereto						
OR X was filed on (MM/DD/YYYY)	11/20/2003	an United St	ates Annliastics I	Number or BCT International		
x was filed on (MM/DD/YYYY)	11/20/2003	as United St	ates Application i	Number or PCT International		
			· · · · · · · · · · · · · · · · · · ·			
Application Number 10/534	,781 and was a	mended on (MM/DD/YY	YY)	(if applicable).		
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.						
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation- in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.						
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.						
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES NO		
0227109.6	0227109.6 GB					
	, '	·				
Additional foreign application			to about PTC/SB	2/02P etterhed herete:		

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/01 (03-01)

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DECLARATION FOR UTILITY OR	Attorney Docket Number	er 06309 USA		
DECLARATION FOR UTILITY OR DESIGN	First Named Inventor	Neil Alexander DOWNIE		
PATENT APPLICATION	COMPLETE IF KNOWN			
(37 CFR 1.63)	Application Number	10/534,781		
Declaration X Declaration	Filing Date	11/20/2003		
Submitted OR Submitted after Initial with Initial Filing (surcharge	Group Art Unit			
Filing (37 ČFR 1.16 (e)) required)	Examiner Name			

_		required	LAMITATION IN THE	<u> </u>				
As a below named inventor, I hereby declare that:								
	My residence, mailing address, and citizenship are as stated below next to my name.							
	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:							
			٠.					
		VOLUME FL	OW CONTROLLER		•			
		(Title of t	he Invention)					
	the specification of which	•						
	is attached hereto							
	OR.	·	,	•		· . • · ·		
	X was filed on (MM/DD/YYYY)	11/20/2003	as United St	ates Application	Number or PCT Ir	nternational		
			<u> </u>			_		
	Application Number 10/534	,781 and was a	amended on (MM/DD/YY	YY)	•	(if applicable).		
	I hereby state that I have reviewed amended by any amendment special s	l and understand the co cifically referred to above	ntents of the above ident e.	ified specification	n, including the cla	ims, as		
	I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or							
	PC1 International filing date of the	continuation-in-part app	olication.			/		
	I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other							
	than the United States of Americ	a. listed below and hav	ve also identified below.	by checking the	box any foreign	annlication for		
patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.								
	Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Cor YES	by Attached? NO		
	0227109.6	GB .	11.21.04			X		
		,	_					
	Additional foreign application	numbers are listed on a	supplemental priority da	ta sheet PTO/SB	/02B attached her	reto:		

[Page 1 of 2]

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PTO/SB/01 (03-01)

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Utility or Design Patent Application

							
	er Number Code Label			OR C	orrespondence address below		
Name	·						
Address							
City		. i	State	 e	ZIP		
Country		phone			Fax		
made are punishable by fine or imprisonment, o validity of the application or any patent issued the	I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.						
NAME OF SOLE OR FIRST INVENTOR	₹:	A petition h	ıas be	een filed for this un	signed inventor		
Given Name Neil Alexander (first and middle [if any])	•			ily Name DOWNIE	·		
Inventor's Signature		Jan	- 2_		Date		
Guildford Residence: City		State		United Kingdom Country さらメ	British Citizenship		
1 Eustace Road Mailing Address							
Guildford		State		GU4 7EB ZIP	United Kingdom Country		
NAME OF SECOND INVENTOR:		A petition has	been	n filed for this unsig	gned inventor		
Given Name (first and middle [if any])			Family or Sun	y Name mame			
Inventor's Signature			_		Date		
Residence: City	S	State '	Cı		Citizenship		
Mailing Address							
City	s	State	ZII	IP	⊄ Country		
Additional inventors are being named on thesupplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.							

[Page 2 of 2]

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PTO/SB/96 (09-04)

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STATEMENT UNDER 37 CFR 3.73(b)							
Applicant/P atent Owne r: Neil Alexander Downie							
Application No./Patent No.: 10/534,781 Filed/Issue Date: 11/20/2003							
Entitled: Volume Flow Controller							
Air Products and Chemicals, Inc. corporation							
(Name of Assignee) (Type of Assignee, e.g., corporation, partner	ship, university, government agency, etc.)						
states that it is: 1. The assignee of the entire right, title, and interest; or							
2. an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is%							
in the patent application/patent identified above by virtue of either:							
A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 016598, Frame 0288, or for which a copy thereof is attached.							
OR B. A chain of title from the inventor(s), of the patent application/patent identified above, to below:	the current assignee as shown						
From: To: To: The document was recorded in the United States Patent and Trademark Office							
The document was recorded in the United States Patent and Trademark Office Reel, or for which a copy thereof	e at is attached.						
From: _ · To: To: The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.							
3. From:To:							
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.							
Additional documents in the chain of title are listed on a supplemental sheet.							
Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]							
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. 15 November 2005							
Signature	Date						
Mark L. Rodgers	610-481-8817						
Printed or Typed Name	Telephone Number						
Assistant General Counsel, Patents							
Title							

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

NOV 2 1 2005

PTO/SB/80 (12-03)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby appoint:							
√ F	ractitioners associated with the Customer Number:	23543					
01	र				J		
F	Practitioner(s) named below (if more than ten patent pr	actitioners	s are to be named, th	ien a customer	number must be used):		
Γ	Name			Registration	Number		
[<u> </u>				
-							
F					•		
as attor	ney(s) or agent(s) to represent the undersigned before	a the Unit	ed States Patent and	Trademark Off	ice (USPTO) in connection with		
any and	d all patent applications assigned only to the undersigned below to this form in accordance with 37 CFR 3.73(b).	ned accor	ding to the USPTO a	ssignment reco	rds or assignment documents		
Assignee Name and Address:							
	Air Products	and C	hemicals, Inc.				
	7201 Hamilton						
	Allentown, PA 18195-1501						
A cop	y of this form, together with a statement	under this f	37 CFR 3.73(b) (orm is used. Ti	(Form PTO/: he statemer	SB/96 or equivalent) is nt under 37 CFR 3.73(b)		
may t	required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is						
authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney isto be filed.							
SIGNATURE of Assignee of Record							
The individual whose signature and title is supplied below is authorized to act on behalf of the assignee							
Name Mark L. Rodgers							
Signatu	Ire Mch 2/Rds -			Date 7 28/2004			
Title	Assistant General Counsel			Telephone	610-481-8817		
This coll	ection of information is required by 37 CFR 1.31 and 1.33. To	he informat	on is required to obtain	or retain a benefi	by the public which is to file (and by the		

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the complete depilication form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ASSIGNMENT

For value received, I, Neil Alexander Downie, (a United Kingdom citizen residing at 1 Eustace Road, Guildford GU4 7EB, United Kingdom) hereby sell, assign, and transfer to AIR PRODUCTS AND CHEMICALS, INC., a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 13195-1501, the entire right, title, and interest in and to the invention relating to VOLUME FLOW CONTROLLER as described in our application for a Letters Patent of the United States (identified by APCI Docket No. 06309 USA) that claims priority from United Kingdom Patent Application No. 0227109.6 filed on 20th November 2002 and corresponding to International Patent Application No. PCT/GB2003/005064, in and to all Letters Patents which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patents upon said invention or improvements which may be granted in foreign countries.

I hereby also assign and convey to said AIR PRODUCTS AND CHEMICALS, INC. all the rights accruing to me by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in my own name.

And I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said AIR PRODUCTS AND CHEMICALS, INC., as assignee of the entire right, title and interest in and to the same.

And I hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said AIR PRODUCTS AND CHEMICALS, INC., its successors and assigns, the right conveyed as herein set forth.

Neil Alexander DOWNIE

Date